

**Mercy Hospital
Cumberland County
Portland, Maine
A-201-71-F-M**

**Departmental
Findings of Fact and Order
Air Emission License
Amendment #1**

After review of the air emissions license amendment application, staff investigation reports and other documents in the applicant's file in the Bureau of Air Quality, pursuant to 38 M.R.S.A., Section 344 and Section 590, the Department finds the following facts:

I. REGISTRATION

A. Introduction

1. Mercy Hospital of Portland, Maine was issued Air Emission License A-201-71-E-N on September 21, 2001 permitting the operation of emission sources associated with their healthcare facility.
2. Mercy Hospital has requested a minor revision to their license in order to replace the burners in Boilers #1, #2, and #3.

B. Emission Equipment

The following equipment is addressed in this air emission license:

Fuel Burning Equipment

<u>Equipment</u>	<u>Previous Maximum Capacity (MMBtu/hr)</u>	<u>Future Maximum Capacity (MMBtu/hr)</u>	<u>Fuel Type, % sulfur</u>	<u>Stack #</u>
Boiler #1	6.0	5.0	natural gas / #2 fuel oil, 0.35%	1
Boiler #2	7.0	7.0	natural gas / #2 fuel oil, 0.35%	1
Boiler #3	10.0	10.2	natural gas / #2 fuel oil, 0.35%	1

C. Revision Description

Mercy Hospital has proposed replacing the burners in Boilers #1, #2, and #3. The replacement of this equipment will alter the maximum permitted capacity as noted in the table above. Mercy Hospital has not requested any change in their permitted fuel limit.

D. Application Classification

This amendment will not increase annual emissions of any pollutant. Therefore, this modification is determined to be a minor revision and has been processed as such.

E. Annual Emissions

Mercy Hospital shall be restricted to the following annual emissions, based on a 12 month rolling total:

Total Licensed Annual Emission for the Facility
Tons/year
(used to calculate the annual license fee)

	PM	PM₁₀	SO₂	NO_x	CO	VOC
Oil Firing	3.4	3.4	9.8	8.4	1.0	0.1
Natural Gas	3.7	3.7	-	3.0	2.5	0.2
Generator A	0.1	0.1	0.1	0.5	0.1	0.1
Generator B	0.1	0.1	0.1	0.6	0.1	0.1
Total TPY	7.3	7.3	10.0	12.5	3.7	0.5

ORDER

The Department hereby grants Air Emission License Minor Revision A-201-71-F-M subject to the conditions found in Air Emission License A-201-71-E-N and in addition to the following conditions:

The following shall replace Condition (16) of Air Emission License A-201-71-E-N:

(16) **Boilers #1, #2, and #3**

- A. Total #2 fuel oil use for the boilers shall not exceed 400,000 gal/yr with a maximum sulfur content not to exceed 0.35% by weight. Compliance shall be demonstrated by fuel receipts from the supplier, or other documentation, showing the quantity of fuel delivered and the percent sulfur of the fuel. Records of annual fuel use shall be kept on a 12-month rolling total basis. [MEDEP Chapter 115, BPT]

- B. Total natural gas use for the boilers shall not exceed 60 MMscf/year. Records of annual fuel use shall be kept on a 12-month rolling total basis. [MEDEP Chapter 115, BPT]
- C. Emissions shall not exceed the following:

Emission Unit	Pollutant	lb/MMBtu	Origin and Authority
Boiler #1	PM	0.12	MEDEP, Chapter 103, Section 2(B)(1)(a)
Boiler #2	PM	0.12	MEDEP, Chapter 103, Section 2(B)(1)(a)
Boiler #3	PM	0.12	MEDEP, Chapter 103, Section 2(B)(1)(a)

- D. Emissions shall not exceed the following when firing #2 fuel oil [MEDEP Chapter 115, BPT]:

Emission Unit	PM (lb/hr)	PM₁₀ (lb/hr)	SO₂ (lb/hr)	NO_x (lb/hr)	CO (lb/hr)	VOC (lb/hr)
Boiler #1	0.60	0.60	1.76	1.50	0.18	0.01
Boiler #2	0.84	0.84	2.47	2.10	0.25	0.02
Boiler #3	1.22	1.22	3.60	3.06	0.36	0.02

- E. Emissions shall not exceed the following when firing natural gas [MEDEP Chapter 115, BPT]:

Emission Unit	PM (lb/hr)	PM₁₀ (lb/hr)	NO_x (lb/hr)	CO (lb/hr)	VOC (lb/hr)
Boiler #1	0.60	0.60	0.49	0.41	0.03
Boiler #2	0.84	0.84	0.68	0.57	0.04
Boiler #3	1.22	1.22	0.99	0.83	0.05

- F. Visible emissions from Stack #1 shall not exceed 20% opacity on a six (6) minute block average, except for no more than two (2) six (6) minute block averages in a continuous 3-hour period. [MEDEP Chapter 115, BPT]

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The following are new Conditions:

(20) Payment of Annual License Fee

Mercy Hospital shall pay the annual air emission license fee within 30 days of December 30th of each year. Pursuant to 38 MRSA §353-A, failure to pay this annual fee in the stated timeframe is sufficient grounds for revocation of the license under 38 MRSA §341-D, subsection 3.

DONE AND DATED IN AUGUSTA, MAINE THIS DAY OF 2004.

DEPARTMENT OF ENVIRONMENTAL PROTECTION

BY: _____
DAWN R. GALLAGHER, COMMISSIONER

The term of this amendment shall be concurrent with the term of Air Emission License A-201-71-E-N.

PLEASE NOTE ATTACHED SHEET FOR GUIDANCE ON APPEAL PROCEDURES

Date of initial receipt of application: 4/22/04

Date of application acceptance: 4/26/04

Date filed with the Board of Environmental Protection: _____

This Order prepared by Lynn Ross, Bureau of Air Quality.